

## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/875,296	06/07/2001	Ryoichi Yamamoto	W-2723 (07250001AA)	4660	
759	90 06/21/2002				
McGuireWoods LLP			EXAMINER		
Suite 1800 1750 Tysons Boulevard			BROOKE, MICHAEL S		
McLean, VA 22102		•	ART UNIT	PAPER NUMBER	
			2853	2853	
			DATE MAILED: 06/21/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner			Application No.	Applicant(s)			
Michael S. Brooke   2853	Office Action Summary		09/875,296	YAMAMOTO ET AL.			
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions to the may be available used the provision of 3° CFR 1.76(a). In or event, however, may a reply be timely field after the St. (b) for reply a specified above is late sharthery (30) days, a reply whitin the stillador maintain of the replace of the state			Examiner	Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Education of Month 15 from the mailing date of this communication.  - If NO period for reply is specified above, the maintenant stations period will apply and will expire SN (5) Month 150 cays will be considered firstly.  - If NO period for reply is specified above, the maintenant stations period will apply and will expire SN (5) Month 150 cays will be considered firstly.  - If NO period for reply is specified above, the maintenant stations period will apply and will expire SN (5) Month 150 cays will be considered firstly.  - If NO period for reply is specified above, the maintenant stations period will apply and will expire SN (5) Month 150 cays will be considered firstly.  - If NO period for reply specified above, the maintenant stations period will apply and will expire SN (5) Month 150 cays will be considered firstly.  - If NO period for reply specified above, the maintenant stations period will apply and will expire SN (5) Month 150 cays will be considered firstly.  - If NO period for reply specified above, the maintenant stations period will apply and will expire SN (5) Month 150 cays will be considered firstly.  - Any period reviewed by the Office that the three notions and stations are stations.  - Applicant term adjustment. See 37 CFR 1.704(b).  - Status  - Status  - 1)							
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be variable under the provisions of 3 CFR 1 35(4). In no event, however, may a reply be timely filed after \$18, (8) MONTHS from the mailing date of this communication. A provision of the provision							
1) Responsive to communication(s) filed on 30 May 2002.  2a) This action is FINAL. 2b	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
2a)  This action is FINAL. 2b  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-4 and 9-12 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are allowed.  6)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a)   accepted or b)   objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a)   approved b)   disapproved by the Examiner.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c) None of:  1.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)		Responsive to communication(s) filed on 30 A	<u>/lay 2002</u> .				
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	2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal				

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## **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

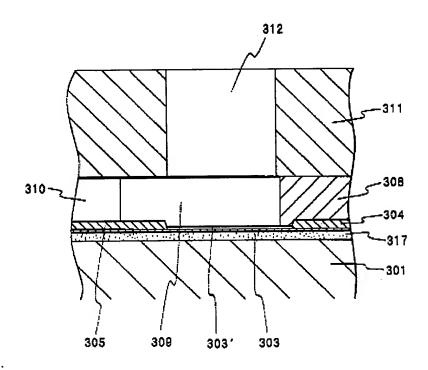
1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4 and 9-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Mitani et al. (5,831,648).

FIG. 31



Mitani et al. teaches (Fig. 31, above) an ink jet recording head comprising a head body, a plurality of orifices (312), a plurality of ink ejection units (303) corresponding to

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each of the orifices, an individual flow path (309) for supplying ink to each orifice, a common flow path (310), an ink supply bore (314) (shown in Fig. 32B) formed on a side opposite the orifice and a metallic film (303') formed on at least on apart of at least one side of the head body and opposite the orifices. Mitani et al. further teaches that the metallic layer is an oxidized film of Ta-Si-SiO, therefore, the layer would contain Ta. Furthermore, the layer has a thickness of 0.1 microns (col. 25:34-37).

## Response to Arguments

3. Applicant's arguments filed 05/30/02 have been fully considered but they are not persuasive.

Applicant's argument that the Ta-Si-SiO later taught by Mitani et al. does not read on the limitation, "metallic film," is not persuasive. The Applicant has provided a definition of the term "oxide," which teaches that an oxide is a mineral and not a metal. The question is not whether the layer taught by Mitani is a metal, but whether it is metallic. The Examiner has provided a definition of the term metallic, which states that the term means: "made of or containing a metal." Since, Ta-Si-SiO contains, a metal, that is Ta, this layer would be metallic and would meet the limitation as claimed.

#### Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael S. Brooke whose telephone number is 703-305-0262. The examiner can normally be reached on M-F 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 308-3126. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-3431 for regular communications and 703-308-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4900.

Michael S. Brooke Examiner Art Unit 2853

mB

MSB June 20, 2002

John Barlow
Supervisory Patent Examiner
Technology Center 2800